

ABSTRACT

An acid end-capped inherently electrostatic dissipating block copolymer (acid end-capped IDP) composition has from about 95 to about 99.99 weight percent of an inherently electrostatic dissipating block copolymer (IDP) and from about 0.01 to about 5 weight percent of an acid end-capping reagent having an acid functionality of at least two. The IDP has from about 5 to about 85 weight percent of a soft segment of a polyalkylene glycol and from about 15 to about 95 weight percent of a hard segment. The hard segment is derived from a polymer having a glass transition temperature or crystalline melting temperature greater than ambient temperature and being reactive with a hydroxyl functionality. After formation of the IDP, the IDP is subsequently modified with the acid end-capping reagent to form the acid end-capped IDP composition. The acid end-capped IDP compositions may be added to thermoplastic base materials to form an alloy. Processes for preparing the acid end-capped IDP compositions and the alloys are provided.